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Human KCC2 polypeptide and DNA sequences

(Mount, D.B. and Song, L. (2002) Brain Res. Mol. Brain Res. 103 (1-2), 91-105; ACCESSION : AF208159)

Human KCC2 polypeptide (SEQ ID NO:2) :

MPNNLTDCEDGDDGANPGDGNPKESSPFINSTDTEKGKEYDGKN
 MALFEEEMDTSPMVSSLLSGLANYTNLPQGSREHHEAENNEGKKKPVQAPRMGTFMG
 VYLPCLQNIFGVILFLRLTWVVGIAKIMESFCMVFICCSCTMLTAISMSAIATNGVVP
 AGGSYMYISRSLGPEFGGAVGLCFYLGTTFAGAMYILGTIEILLAYLFPAMAIFKAED
 ASGEAAAMLNNMRVYGTCVLTCMATVVFVGVKYVNKFALVFLGCVILSILAIYAGVIK
 SAFDPPNFPICLLGNRTLSRHGFDVCAKLAEGNETVTRLWGLFCSSRFLNATCDEY
 FTRNNVTEIQGIPGAASGLIKENLWSSYLTKGVIVERSGMSMTSGIADGTPIDMDHPYV
 FSDMTSYFTLLVGIYFPSVTGIMAGSNRSGDLRDAQKSIPTGTILAIATTSAVYISSV
 VLFGACIEGVVLRDKFGEAVNGNLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTGAPR
 LLQAIISRDGIVPFLQVFGHGKANGEPTWALLTACICEIGILIASLDEVAPILSMFFL
 MCYMFVNLLACAVQTLLRTPNWRPRFRYYHWTLSFLGMSLCLALMFICSWYYALVAMLI
 AGLIYKYIEYRGAEKEWDGIRGLSLSAARYALLRLEEGPPHTKNWRPQLLVLVRVDQ
 DQNVVHPQLLSLTSQLKAGKGLTIVGSVLEGTFLENHPQAQRAEESIRRLMEAEKVKG
 FCQVVISSNLRDGVSHLIQSGGLGGLQHNTVLVGWPWNWRQKEDHQTWRNFIELVRET
 TAGHLALLVTKNVSMFPGNPERFSEGSIDVWWIVHDGGMLMLPFLRRHHKVWRKCKM
 RIFTVAQMDDNSIQMKKDLTTFLYHLRITAEEVVEMHESDISAYTYEKTLMVMEQRSQ
 ILKQMHLTKNEREREIQSITDESGSIRRKNPANTRLRLNVPEETAGDSEEKPEEEVQ
 LIHDQSAPSCPSSSPSPGEEPEGEGETDPEKVHLTWTDKSVAEKNKGSPVSSEGIK
 DFFSMKPEWENLNQSNVRRMHTAVRLNEVIVKKSRAKLVLLNMPGPPRNNGDENYM
 EFLEVILTEHLDRVMLVRGGGREVITIYS

Human KCC2 DNA (SEQ ID NO:1) :

1 atgccccaaaca acctgacgga ctgcgaggac gggcgtatgggg gagccaaaccc ggggtgatggc
 61 aaccccaagg aaaggcagtcc cttcatcaac agcaccgaca cagagaagg aaaggagttat
 121 gatggcaaga acatggccctt gtttggaggag gagatggaca ccagccctat ggtgtccctcc
 181 ttgctcgttg gcctggccaa ctacaccaac ctgccccagg gaagtaggga gcatgaagag
 241 gcagaaaaca atgagggtgg aaaaaagaag ccgggtgcagg ccccaacgcat gggcaccttc
 301 atgggcgtgt acctgcccgtg cctgcagaac atctttggcg tcatccctt cctgcggctc
 361 acctgggtgg tggcattgc aggcatcatg gagtccttct gcatgggtt catctgctgc

FIG. 9A

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FIG. 9B

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3901 tccccatatt tatgtgacta gaagcgcaac agacttctcg ccatagtcga gctctccgc
 3961 tgggggcaact gcggggaggc gaggcctcgga aagactgaat tttccttgac gtccaagagt
 4021 ttgagagcga aagtgcctta gccccagggc ggggtcgatgg cctcgatccc tcgacaccc
 4081 cgtcctgcgc tcgccttc gccccttcg cgcgccttgc gcttccacc ctctctcca
 4141 gtcctttcc gagatgaggt gagacaaggc tccaactttt cctggattcg cctcccaagcg
 4201 gacgtgagct tccactgcgg ctgcagagac gcgagcaacc tcttctcatc ggctttatg
 4261 caagttgggg ccaggatagg ggagggtgc tcctcaagag gaagaaaccg agaggcccgc
 4321 gccccaccga ggaagccccc ccccggtgcc ttcgctgggg agcaggcgctc tctctcaagt
 4381 cggcttgcgc cctgcctccc gtatccatg gtcctcgcc aaagactgaa attgtggagc
 4441 tggagggcgc cccctccccc gagtttctc cctgggacaa gtgagggagg agggggccga
 4501 ttctggttta ggggcccggac ccactgagag gccccagagc cgcccgatgat gttctccccc
 4561 cgtccccatc tggcagctcc tgcgtcgctt gaggagccca gcccgccttcc cctgtctcg
 4621 gggccggggcc tcgctgccta gcagccgcct ctgcgtccgt cttccgggg cctggccctg
 4681 agggaggggct ggagtcaagca cgcgccttgc ctttagcgcc tgcgtctt cctctaacta
 4741 ggaccgcggg cctttggctt ccccaatca tccctggccc ttcgcgttccca ccagcctgg
 4801 ctgaggcggtg ctctgtccctt agagaaggcg cgggtggccgg gttcccttcc cctaggccac
 4861 attactaagg gggtcaggca ctgcgtgcgc gttccagcac catctggac tgggtacagt
 4921 acctccagcc ccagggccctt gacgtcgca cctagcttgc catctcacgc acctcccaga
 4981 gctggcgcca ctgagtaatc cggaccctcac cacctctttt cctttgagcc caaggcagag
 5041 cttagagctgg agctggcgcc acccagacag cgtcagggtgt ggctgggta gtttggagg
 5101 tctgccagtt acgccaagtc ccctctgaga ttgcgtcagg ggactggata gattcttca
 5161 ggtactcaat caggaagctg gagggttttag acaccagccc cctgcatttc tcagtagacc
 5221 tccctctgaa caccacagcc aggtcccgcc ttctggggcc ctgaatattc cagagctgt
 5281 gtgatgggct gtgcagaagg gggctgtatc aacatcaattt agggaaaccaa agttgcacta
 5341 tctggggccca gattgtctgg ttggcaagag caaagttcc gttgatgaaa cagacatccc
 5401 acaacaaaaaa cccaaatttt ctgtgcatac tgcataat ttgttatgaa ttttatcaca
 5461 agtcattcat caagtttatc ttataatcac tgcataatgaa ttttcatgt ccattcaagt
 5521 gactttttt ctgagtgcaa tatttataa gcctttagt gataactagt gttcttttgc
 5581 ttttagatgt ctatgtcgag ggcaatgcaa tgaagttgaa accccttgg aataggagag
 5641 gttgcaaaacc aaatcaagag tatttattac tattactgtt attattatta ggctgcctt
 5701 taattttcag tgcataatgaa tgcataatgaa tgcataatgaa tgcataatgaa tgcataatgaa
 5761 ttgtgccaat atgaaaagga gaggggtgg tctttccctt attgttgaat gctcccaattt
 5821 aatgctttat ggctttact gtattactt ttttagactcc cgtctgcaca aaatgcaata
 5881 aaaataattt tattataaaa aaaaaaaaaaaaaaa

FIG. 9C

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Mouse KCC2 (K-Cl cotransporter [Slc12a5])
polypeptide and DNA sequence

(Ehringer, M.A., et al. (2001) Mamm. Genome 12 (8), 657-663;
ACCESSION: AF332064)

Mouse KCC2 polypeptide (SEQ ID NO:4) :

MLNNLTDCEDGDGGANPGDGNPKESSPFINSTDTEKGREYDGRN
MALFEEEMDTSPMVSSLLSGLANYTNLPQGSREHEEAENNEGKPKVQAPRMGTFMG
VYLPCLQNIFGVILFLRLTWVVGIAKIMESFCMVFICCSCTMLTAISMSAIATNGVVP
AGGSYMYISRSLGPEFGGAVGLCFYLGTTFAGAMYILGTIEILLAYLFPAMAIFKAED
ASGEAAAMLNNMRVYGTCVLTCMATVVFVGVKYVNKFALVFLGCVILSILAIYAGVIK
SAFDPPNFFICLLGNRTLSRHGFDVCALKLAWEGNETVTRLWGLFCSSRLLNATCDEY
FTRNNVTEIQGIPGAASGLIKENLWSSYLTGVIVERRGMPVGADGTPVDMHDHYV
FSDMTSYFTLLVGIYFPSVTGIMAGSNRSGDLRDAQKSIPTGTILAIATTSAVYISSV
VLFGACIEGVVLRDKFGEAVNGNLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTGAPR
LLQAIISRDGIVPFLQVFHGKANGEPTWALLTACICEIGILIASLDEVAPILSMFFL
MCYMFVNLAQAVQTLLRTPNWRPRFRYYHWTLSFLGMSLCLALMFICSWYYALVAMLI
AGLIYKYIEYRGAKEWDGIRGLSLAARYALLRLEEGPPHTKNWRPQLLVLVRVDQ
DQNVVHPQLLSLTSQLKAGKGLTIVGSVLEGTFLDNHPQAQRAEESIRRIAMEAKVKG
FCQVVISSNLRGVSHLIQSGGLGGIQLQHNTVLVGWPRNWRQKEDHQTWRNFIELVRET
TAGHIALLVTKNSMFPGNPERFSEGSIDVWWIVHDGGMLLPPFLRRHHKVWRKCKM
RIFTVAQMDDNSIQMKKDLTTFLYHLRITAEEVEVVMHESDISAYTYEKTIVMEQRSQ
ILKQMHLTKNEREREIQSITDESRGSIRRKNPANPRLRLNVPEETACDNEEKPEEEVQ
LIHDQ SAPSCPSSSPSPGEEPEGERETDPEVHTWTKDKSVAEKNKGSPSPVSSEGIKD
FFSMKPEWENLNQSNVRRMHTAVRLNEVIVNKSRAKLVLLNMPGPPRNNGDENYME
FLEVLT EQLDRVMLVRGGGREVITIYS

Mouse KCC2 DNA (SEQ ID NO:3) :

1 gagcaagcga gcgagcggag aaggcggca gagggcgcg ggcgaagcgg cgcagccatc
61 ccgagccgg cgccgcgcag ccaccatgt caacaacctg acggactgcg agacggcga
121 tggggagcc aaccccggtg atggcaaccc caaagagagc agtcccttca tcaacagcac
181 ggacacggag aagggcagag agtacgatgg caggaacatg gccctgttg aggaggat
241 ggacaccagc cccatggat cctccctgct cagtggctg gccaactaca ccaacctacc
301 ccagggaaatg agagagcatg aagaagcaga aaataatgag ggtggaaaaaa agaagccgt

FIG. 10A

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FIG. 10B

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Rat KCC2 polypeptide and DNA sequences

(Payne, J.A., et al., (1996) J. Biol. Chem. 271 (27), 16245-16252; Gillen, C.M., et al., (1996) J. Biol. Chem. 271 (27), 16237-16244; ACCESSION: U55816)

Rat KCC2 polypeptide (SEQ ID NO:6) :

MLNNLTDCEDGDGGANPGDGNPKESSPFINSTDTEKGREYDGRN
 MALFEEEMDTSPMVSSLLSGLANYTNLPQGSKEHEEAENNEGGKKKPVQAPRMGTFMG
 VYLPCLQNIFGVILFLRLTWVVGIA吉MESFCMVFIGCSCTMLTAISMSAIATNGVVP
 AGGSYIMISRSLGPEFGGAVGGLCFYLGTTFAGAMYILGTIEILLAYLFPAMAIFKAED
 ASGEAAAMLNNMRVYGTCVLTCMATVVFVGVKYVNKFALVFLGCVILSILAIYAGVIK
 SAFDPPNFPICLLGNRTLSRHGFDVCAKLAWEGNETVTRILWGLFCSSRLLNATCDEY
 FTRNNVTEIQGIPGAASGLIENLWSSYLTGVIVERRGMPSVGILADGTPVDMHDHYV
 FSDMTSYFTLLVGIYFPSVTGIMAGSNRSGDLRDAQKSIPTGTILAIATTSAVYISSV
 VLFGACIEGVVLRDKFGEAVNGNLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTGAPR
 LLQAIISRDGIVPFLQVFGHGKANGEPTWALLTACICEIGILIASLDEVAPILSMFFL
 MCYMFVNLAQAVQTLLRTPNWRPRFRYYHWTLSFLGMSLCLALMFICSWYYALVAMLI
 AGLIYKYIEYRGAKEWGDGIRGLSLAARYALLRLEEGPPHTKNWRPQLLVLVRVDQ
 DQNVVHPQQLSLTSQKAGKGLTIVGSVLEGTFLDNHPQAQRAEESIRRLMEAEKVKG
 FCQVVISSNLRGVSHLIQSGGLGGLQHNTVLVGWPRNWRQKEDHQTWRNFIELVRET
 TAGHLALLVTKNVSMFPGNPERFSEGSIDVWWIVHDGGMLMLPFLRHHKVWRKCKM
 RIFTVAQMDNSIQMKDLTTFLYHLRITAEVEMHESDISAYTYEKTIVMEQRSQ
 ILKQMHLTKNEREREIQSITDESRGSIRRKNPANTRLRLNVPEETACDNEEKPEEEVQ
 LIHDQSAPSCPSSSPSPGEEPEGEGETDPEKVHLTWTKDKSAAQKNKGSPVSSEGIK
 DFFSMKPEWENLNQSNVRRMHTAVRLNEVIVNKSRAKLVLLNMPGPPRNNGDENYM
 EFLEVLT EQLDRVMLVRGGGREVITIYS

Rat KCC2 DNA (SEQ ID NO:5) :

1 ccgcctccacg gagagcaagc gacagagctc gagcaagcga gcgagcggcg aaggcgggca
 61 gaggggcgcg ggcgaagagg cgcagccatc cgcggccgg cggcgcgcag ccaccatgct
 121 caacaacctg acggactgcg aggacggcga tgggggagcc aacccgggtg acggcaatcc
 181 caaggagacg agccccctca tcaacacgac ggacacggag aaggggagag agtatgtgg
 241 caggaacatg gcccgtttt aggaggagat ggacaccagc cccatggat cctccctgct

FIG. 11A

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301 cagtgggctg gccaactaca ccaacactgcc tcagggaaacg aaagagcaca aagaagcaga
 361 aaacaatgag ggcggaaaaga agaagccggt gcaggccccca cgcattggca ccttcattgg
 421 cgttacactc cctgtccctgc agaacatctt tgggtttatc ctcttctgc ggctcaacttg
 481 ggtggggaa atcgcaggca tcattggatc cttctgcatg gcttcatct gctgtccctg
 541 cacatgtctc acagccattt ccatgagcgc aatttcaacc aatgggttgc tgctgtctgg
 601 tggcttctac tacatgattt ccaggctctt gggcccccggag tttggggcg cctggggct
 661 ctgtttctac ctgggacta cctttctgg ggctatgtac atcctggca ccattcagat
 721 cctgtggct taccttccc cagcgatggc catcttcaag gcagaagatg ccagtgggg
 781 ggcagccccc atgttgaata acatgcgggt gtatggcacc tgggtgtctca cctgcattgg
 841 caccgtatgc tttgtggggc tcaagtacgt gaacaagttt gcccgttct tcctgggttg
 901 cgtgatccctc tccatccctgg ccatctacgc aggggtcatc aagtctgcct tcgatccacc
 961 caatttccccg atttgcctcc tggggaaaccg caccgtgtct cggcatggct ttgtatgtctg
 1021 tgccaaagctg gcttggggaa gaaatgagac agtgaccaca cggctctgg gcctattctg
 1081 ttcctccccc ctcctcaatg ccacctgtga tgagtacttc accggaaaca atgtcacaga
 1141 gatccaggcctt attccctggc ctgcgaatgg cctcatcaaa gagaacctgt ggagttctta
 1201 cctgaccaag ggggtgatcg tggagaggcg tggatgccc tctgtggcc tggcagatgg
 1261 taccctccgtt gacatggacc accccatgtt cttcagtgtat atgacccctt acttcaccct
 1321 gctgttggc atctattttcc cctcgttgc accgtatcatg gctggctcga accgggtccgg
 1381 agacactgcgg gatgcccaga agtctatccc tactggaaact atcttggcca ttgttacgc
 1441 ctctgtgtc tacatcactt ctgttggctt gttcgagcc tgcattcaag gggcgttct
 1501 acgggacaag tttggggaaatg ctgtgaatgg caatctgggtt gttggccaccc tggctggcc
 1561 ttctccctgg gtcattgtca taggtctttt cttctctacc tgcggagctg gactacagag
 1621 cctcacaggg gccccacgcc tcgtcgaggc catctcccg gatggcatacg tggcttct
 1681 gcaggtctt ggccatggca aagccaaacgg agagccaaacc tggcgttgc tgctgactgc
 1741 ctgcattctgt gagatcgccca tcctcatcgc ctccctggat gaggtcgccc ctatccccc
 1801 catgttcttc ctgtatgtttt acatgtttgtt gaaacttggct tgcgcgttgc agacactgt
 1861 gaggacgccc aactggagcc caccgttccg atattaccac tggaccctct cttctctgg
 1921 catgagccctc tgcctggccc tggatgttcat tttgttctgg tattatgcgc tggtagctat
 1981 gtcatcgctt ggcctcatctt ataaatcgatc tggatgttcat cggatggcc gggcggagaa
 2041 ggtatggatc cggggctgtt ctctcgttgc agtcgttat gctcttgc tgctggagga
 2101 aggacccccc cataaaaaaa actggaggcc ccagctactg tggctgttgc tggtggacca
 2161 ggaccagaac tgggtgcacc cgcagctgtt gtccttgacc tcccagctca aggccggaa
 2221 gggcttgacc atttggggctt ctgttgcacc tggcacctt ctggacaacc accctcaggc
 2281 tcagcgggca gaggagttca tccggccctt gatggaggctt gagaagggtga agggcttctg
 2341 ccaggtagtg atctccctca acctcggtt cgggtgttgc cacctgatcc aatccgggg
 2401 cctcggggcc ctgcacacaca acactgttgc agtgggtctt cctcgcaact ggcacagaa
 2461 ggaggatcat cagacatggc ggaacttcat cgaactcgcc cgggaaacta cagctggcca
 2521 cctcggccctg ctggtcacca agaatgtttc catgttcccc gggaaaccctg agcgatctc
 2581 tgagggcagc attgacgtgtt ggtggatctt gacacgacggg ggcacgttca tgcgttgc
 2641 ctctccctgt ctgcacccaca aggtctggag gaaatgcacaa atgcggatct tcaccgttgc
 2701 gcagatggat gacaacacca ttcaatgttca gaaagacccctt accacgttcc tggaccatt
 2761 acgaattact gcaagggttgc aagtctggc tgcacacgag aegcagatctt cagcatacac
 2821 ctacgagaag acatttggtaa tggaaacacg ttctcagatc ctcaacacaga tgcacccatc
 2881 caagaacacg cgggaaacccgg agatccacatg catcacatg gaaatctggg gtcattcc
 2941 gagaagaat ccagccaaaca ctcggctccg cctcaatgtt cccgaagaga cagcttgc
 3001 caacgaggag aagccagaag aggagggtca gctgttccat gaccagatgtt cttccagctg
 3061 cccttagcagc tcggccgttcc cagggggagga gcctgagggg gggggggaga cagacccaga
 3121 gaaggtgcattt ctcacacttca ccaaggataa gtcacggctt cagaagaaca aaggcccc
 3181 tcccgttccctc tcgggggggg tcaaggactt ttcaatgttca gaaagggttgc gggaaaactt
 3241 gaaccagtcc aacgtcgccg gcatgcacac agctgtgcgg ctgaacggg tcatcgtaaa
 3301 taaatccccgg gatgccaatg tgggtttgtt caacatgccc gggccctcccc gcaaccggca
 3361 tggagatgaa aactacatgg aatttccctggg gtccttactt gaccaacttgg accgggttat
 3421 gctgggtccgc ggtgggtggcc gagggatctt caccatcttac tcccttgc cggacactgc
 3481 cactccggcc cgacgcggcc cggccggccg cccggagcc ctcggccgc ctcccccgg
 3541 ctgttcccttcc ttacataatggg ccccttgc cgttccctgg cccttccccc tcccgttgc
 3601 tggggccccc agggcttgc cgttccctgg gacccggagg gggccctgtt gggccctttt
 3661 ctgagccccc ctcggccctg ccggagtaga ctgttgcataa aaggtggcga ggcggccgtt
 3721 agaggagccg aaccgttgc cccggccggg gggccctgtt cccacggccccc

FIG. 11B

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3781 gccgcgctcc ccccgagacc tggtcgctga gccccggcgc cgctcggtcg cgctatacat
 3841 agtgtacagg agacatcgag tgatatttta atgtcccat atttctgtaa actagaaaacg
 3901 caacggactc ctgcggaccc cccgcgtctc cccgctgccc ggcggccagga aggccggagac
 3961 cccggaaagcc agggttccct ggcgtccccg aactgagagcc aagtgttta aggccggcgc
 4021 tctcccttcc ctttcctgtc cacggcccg gcttccctct cttccctcca gttcttggcg
 4081 aacacagggtg aagccctgcc cgggtccctc gtggaggagc aggctgtctc cctctgttgg
 4141 cttggccgctc gtcctccctg tccctgtggct cctcgccaaa gactgaattt gtggagctgg
 4201 agggcacacc ctccccactt tccttcctgg gacaggttag gggccaaatgc cagtcttaggg
 4261 gccgactcac aggaggcctc ggcgcggc cttgtcccca ctctgcagaat cctgcctggg
 4321 gacccagccc ccctgggtt tctggggcggt agctttgtcg cctagcagca agtccttagt
 4381 tactgtctcc agataccagg acctggagta gggaaatggag tcatatgggt tcagttgtt
 4441 ctggcgcttc tctggccctc gtcctccctc tcccttcctc gttagacaca aggactttgg
 4501 ctttcttaac tcatcttgg cgcgtccgcctt caccacaccc caccctgtggg gaggagccct
 4561 cagccctaga gaggcggtt gctgggtccc ttcccccagg gcacgttact aagaggacag
 4621 gcaactgcattt ctcccttaag cgcctctgg gactgggtac agtgcctcca gccccagggc
 4681 cctggcttcgc gcacctagtt agacatcatt gcccactcca gggccaggc cactagctga
 4741 cctcaccacc ttttccttgc agcccaaggc agagagagct gcaagttgtg ccatcttagac
 4801 aggctcaagt gtggccagtg gcagggtctg agggccactg ccctgttgc tggctcagga
 4861 cctctctgag atttgatggg gactggatatt tcttccagg ttagccatc aagtccggaaag
 4921 tttgggaccc aggacctgac attcccttcaa gactgccttc cttgtctgtg gttttgcctt
 4981 ttggggcaag agagggctg ggccaaacggg gaggaggcag tataacaccc gatttagggaa
 5041 cccaaagtgc actacctggg cccagcctctt ggttggcaag agcaaaatgtt ctgttgcatt
 5101 aaacaaaacag cccacacaaa cccccccccccccc cccgttttct gtgcctccatg tgcataatttt
 5161 gttatgaacc ttgtgtcggt caagtcaccc ttataatcac tttgttgcatttgcatttgcattt
 5221 cccatccagggt gacttttactc tgagtgcata tttaatcacat tttgttgcatttgcatttgcattt
 5281 tgcttttttgc tcaagccgacc tatgtgcagg gcaatgcatttgcatttgcatttgcatttgcattt
 5341 attaggagagg ttgcaagccaa aatcaagagt gcaatgcatttgcatttgcatttgcatttgcattt
 5401 tgcctttaaat ttttagtgcattt cggatatttcg ctcctgcctt ctttttttttgcatttgcatttgcattt
 5461 ctgtgccttcaat atgcaaaagga gaggatcagt tcttttttttgcatttgcatttgcatttgcattt
 5521 actgcatttgcatttgcatttgcatttgcatttgcatttgcatttgcatttgcatttgcatttgcatttgcattt

FIG. 11C